



OICE

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/042,202

DATE: 01/27/2002

TIME: 15:24:11

Input Set : A:\1-11-02. HILL sequence listing.txt

Output Set: N:\CRF3\01272002\J042202.raw

ENTERED

## SEQUENCE LISTING

6 (1) GENERAL INFORMATION:

8 (i) APPLICANT: Adrian Vivian Sinton HILL, Michael AIDOO,

9 Catherine Elizabeth Margaret ALLSOPP, Ajit LALVANI, Magdalena

10 PLEBANSKI, Hilton Carter WHITTLE,

12 (ii) TITLE OF INVENTION: MALARIA PEPTIDES

14 (iii) NUMBER OF SEQUENCES: 52

C--> 36 (iv) CORRESPONDENCE ADDRESS:

37 (A) ADDRESSEE: WENDEROTH, LIND & PONACK, L.L.P.

38 (B) STREET: 2033 K Street, N.W., Suite 800,

39 (C) CITY: Washington

40 (D) STATE: D.C.,

41 (E) COUNTRY: U.S.A.

42 (F) ZIP: 20006-1021

C--> 16 (v) COMPUTER READABLE FORM:

17 (A) MEDIUM TYPE: Floppy disk

18 (B) COMPUTER: IBM PC compatible

19 (C) OPERATING SYSTEM: MS-DOS

20 (D) SOFTWARE: WordPad for Windows 95

C--> 0 (vi) CURRENT APPLICATION DATA:

C--> 0 (A) APPLICATION NUMBER: US/10/042,202

C--> 0 (B) FILING DATE: 11-Jan-2002

C--> 32 (vii) PRIOR APPLICATION DATA:

24 (A) APPLICATION NUMBER: 08/714,175

25 (B) FILING DATE: 28-JAN-1997

29 (A) APPLICATION NUMBER: WO PCT/GB95/26982

30 (B) FILING DATE: 30-MAR-1995

33 (A) APPLICATION NUMBER: GB 9406492.0

34 (B) FILING DATE: 31-MAR-1994

44 (viii) ATTORNEY/AGENT INFORMATION:

45 (A) NAME: Warren M Cheek, Jr.

46 (B) REGISTRATION NUMBER: 33,367

47 (C) REFERENCE/DOCKET NUMBER: 2002\_0026

49 (ix) TELECOMMUNICATION INFORMATION:

50 (A) TELEPHONE: (202)-721-8200

51 (B) TELEFAX: (202)-721-8250

52 (C) TELEX:

54 (2) INFORMATION FOR SEQ ID NO: 1:

56 (i) SEQUENCE CHARACTERISTICS:

57 (A) LENGTH: 9 amino acids

58 (B) TYPE: amino acid

59 (C) STRANDEDNESS:

60 (D) TOPOLOGY: linear

## RAW SEQUENCE LISTING

DATE: 01/27/2002

PATENT APPLICATION: US/10/042,202

TIME: 15:24:11

Input Set : A:\1-11-02. HILL sequence listing.txt

Output Set: N:\CRF3\01272002\J042202.raw

62 (ii) MOLECULE TYPE: peptide  
64 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:  
66 His Leu Gly Asn Val Lys Tyr Leu Val  
67 1 5  
70 (2) INFORMATION FOR SEQ ID NO: 2:  
72 (i) SEQUENCE CHARACTERISTICS:  
73 (A) LENGTH: 9 amino acids  
74 (B) TYPE: amino acid  
75 (C) STRANDEDNESS:  
76 (D) TOPOLOGY: linear  
78 (ii) MOLECULE TYPE: peptide  
80 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:  
82 Leu Leu Met Asp Cys Ser Gly Ser Ile  
83 1 5  
87 (2) INFORMATION FOR SEQ ID NO: 3:  
89 (i) SEQUENCE CHARACTERISTICS:  
90 (A) LENGTH: 9 amino acids  
91 (B) TYPE: amino acid  
92 (C) STRANDEDNESS:  
93 (D) TOPOLOGY: linear  
95 (ii) MOLECULE TYPE: peptide  
97 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:  
99 Gly Ile Ala Gly Gly Leu Ala Leu Leu  
100 1 5  
104 (2) INFORMATION FOR SEQ ID NO: 4:  
106 (i) SEQUENCE CHARACTERISTICS:  
107 (A) LENGTH: 9 amino acids  
108 (B) TYPE: amino acid  
109 (C) STRANDEDNESS:  
110 (D) TOPOLOGY: linear  
112 (ii) MOLECULE TYPE: peptide  
114 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:  
116 Ile Leu Tyr Ile Ser Phe Tyr Phe Ile  
117 1 5  
121 (2) INFORMATION FOR SEQ ID NO: 5:  
123 (i) SEQUENCE CHARACTERISTICS:  
124 (A) LENGTH: 9 amino acids  
125 (B) TYPE: amino acid  
126 (C) STRANDEDNESS:  
127 (D) TOPOLOGY: linear  
129 (ii) MOLECULE TYPE: peptide  
131 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:  
133 Tyr Ile Ser Phe Tyr Phe Ile Leu Val  
134 1 5  
138 (2) INFORMATION FOR SEQ ID NO: 6:  
140 (i) SEQUENCE CHARACTERISTICS:  
141 (A) LENGTH: 9 amino acids  
142 (B) TYPE: amino acid  
143 (C) STRANDEDNESS:

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/042,202

DATE: 01/27/2002

TIME: 15:24:11

Input Set : A:\1-11-02. HILL sequence listing.txt

Output Set: N:\CRF3\01272002\J042202.raw

144 (D) TOPOLOGY: linear  
146 (ii) MOLECULE TYPE: peptide  
148 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:  
150 Gly Ile Tyr Lys Glu Leu Glu Asp Leu  
151 1 5  
155 (2) INFORMATION FOR SEQ ID NO: 7:  
157 (i) SEQUENCE CHARACTERISTICS:  
158 (A) LENGTH: 9 amino acids  
159 (B) TYPE: amino acid  
160 (C) STRANDEDNESS:  
161 (D) TOPOLOGY: linear  
163 (ii) MOLECULE TYPE: peptide  
165 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:  
167 His Ile Phe Asp Gly Asp Asn Glu Ile  
168 1 5  
172 (2) INFORMATION FOR SEQ ID NO: 8:  
174 (i) SEQUENCE CHARACTERISTICS:  
175 (A) LENGTH: 9 amino acids  
176 (B) TYPE: amino acid  
177 (C) STRANDEDNESS:  
178 (D) TOPOLOGY: linear  
180 (ii) MOLECULE TYPE: peptide  
182 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:  
184 Tyr Leu Lys Thr Ile Gln Asn Ser Leu  
185 1 5  
189 (2) INFORMATION FOR SEQ ID NO: 9:  
191 (i) SEQUENCE CHARACTERISTICS:  
192 (A) LENGTH: 9 amino acids  
193 (B) TYPE: amino acid  
194 (C) STRANDEDNESS:  
195 (D) TOPOLOGY: linear  
197 (ii) MOLECULE TYPE: peptide  
199 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:  
201 Tyr Leu Gln Lys Ile Gln Asn Ser Leu  
202 1 5  
206 (2) INFORMATION FOR SEQ ID NO: 10:  
208 (i) SEQUENCE CHARACTERISTICS:  
209 (A) LENGTH: 9 amino acids  
210 (B) TYPE: amino acid  
211 (C) STRANDEDNESS:  
212 (D) TOPOLOGY: linear  
214 (ii) MOLECULE TYPE: peptide  
216 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:  
218 Tyr Leu Gln Lys Ile Lys Asn Ser Leu  
219 1 5  
223 (2) INFORMATION FOR SEQ ID NO: 11:  
225 (i) SEQUENCE CHARACTERISTICS:  
226 (A) LENGTH: 9 amino acids  
227 (B) TYPE: amino acid

## RAW SEQUENCE LISTING

DATE: 01/27/2002

PATENT APPLICATION: US/10/042,202

TIME: 15:24:12

Input Set : A:\1-11-02. HILL sequence listing.txt

Output Set: N:\CRF3\01272002\J042202.raw

```

228         (C) STRANDEDNESS:
229         (D) TOPOLOGY: linear
231     (ii) MOLECULE TYPE: peptide
233     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:
235     Tyr Leu Asn Lys Ile Gln Asn Ser Leu
236         1             5
240 (2) INFORMATION FOR SEQ ID NO: 12:
242     (i) SEQUENCE CHARACTERISTICS:
243         (A) LENGTH: 9 amino acids
244         (B) TYPE: amino acid
245         (C) STRANDEDNESS:
246         (D) TOPOLOGY: linear
248     (ii) MOLECULE TYPE: peptide
250     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:
252     Leu Arg Lys Pro Lys His Lys Lys Leu
253         1             5
257 (2) INFORMATION FOR SEQ ID NO: 13:
259     (i) SEQUENCE CHARACTERISTICS:
260         (A) LENGTH: 9 amino acids
261         (B) TYPE: amino acid
262         (C) STRANDEDNESS:
263         (D) TOPOLOGY: linear
265     (ii) MOLECULE TYPE: peptide
267     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:
269     Leu Lys Lys Ile Lys Asn Ser Ile Ser
270         1             5
274 (2) INFORMATION FOR SEQ ID NO: 14:
276     (i) SEQUENCE CHARACTERISTICS:
277         (A) LENGTH: 9 amino acids
278         (B) TYPE: amino acid
279         (C) STRANDEDNESS:
280         (D) TOPOLOGY: linear
282     (ii) MOLECULE TYPE: peptide
284     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:
286     Gln Val Arg Ile Lys Pro Gly Ser Ala
287         1             5
291 (2) INFORMATION FOR SEQ ID NO: 15:
293     (i) SEQUENCE CHARACTERISTICS:
294         (A) LENGTH: 9 amino acids
295         (B) TYPE: amino acid
296         (C) STRANDEDNESS:
297         (D) TOPOLOGY: linear
299     (ii) MOLECULE TYPE: peptide
301     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 15:
303     Ala Asn Lys Pro Lys Asp Gly Leu Asp
304         1             5
308 (2) INFORMATION FOR SEQ ID NO: 16:
310     (i) SEQUENCE CHARACTERISTICS:
311         (A) LENGTH: 9 amino acids

```

## RAW SEQUENCE LISTING

DATE: 01/27/2002

PATENT APPLICATION: US/10/042,202

TIME: 15:24:12

Input Set : A:\1-11-02. HILL sequence listing.txt

Output Set: N:\CRF3\01272002\J042202.raw

312 (B) TYPE: amino acid  
313 (C) STRANDEDNESS:  
314 (D) TOPOLOGY: linear  
316 (ii) MOLECULE TYPE: peptide  
318 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 16:  
320 Ala Ser Lys Asn Lys Glu Lys Ala Leu  
321 1 5  
325 (2) INFORMATION FOR SEQ ID NO: 17:  
327 (i) SEQUENCE CHARACTERISTICS:  
328 (A) LENGTH: 9 amino acids  
329 (B) TYPE: amino acid  
330 (C) STRANDEDNESS:  
331 (D) TOPOLOGY: linear  
333 (ii) MOLECULE TYPE: peptide  
335 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 17:  
337 Lys Asn Lys Glu Lys Ala Leu Ile Ile  
338 1 5  
342 (2) INFORMATION FOR SEQ ID NO: 18:  
344 (i) SEQUENCE CHARACTERISTICS:  
345 (A) LENGTH: 9 amino acids  
346 (B) TYPE: amino acid  
347 (C) STRANDEDNESS:  
348 (D) TOPOLOGY: linear  
350 (ii) MOLECULE TYPE: peptide  
352 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 18:  
354 Met Pro Asn Asp Pro Asn Arg Asn Val  
355 1 5  
359 (2) INFORMATION FOR SEQ ID NO: 19:  
361 (i) SEQUENCE CHARACTERISTICS:  
362 (A) LENGTH: 9 amino acids  
363 (B) TYPE: amino acid  
364 (C) STRANDEDNESS:  
365 (D) TOPOLOGY: linear  
367 (ii) MOLECULE TYPE: peptide  
369 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 19:  
371 Met Pro Asn Tyr Pro Asn Arg Asn Val  
372 1 5  
376 (2) INFORMATION FOR SEQ ID NO: 20:  
378 (i) SEQUENCE CHARACTERISTICS:  
379 (A) LENGTH: 9 amino acids  
380 (B) TYPE: amino acid  
381 (C) STRANDEDNESS:  
382 (D) TOPOLOGY: linear  
384 (ii) MOLECULE TYPE: peptide  
386 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 20:  
388 Met Pro Asn Asn Pro Asn Arg Asn Val  
389 1 5  
393 (2) INFORMATION FOR SEQ ID NO: 21:  
395 (i) SEQUENCE CHARACTERISTICS:

## VERIFICATION SUMMARY

DATE: 01/27/2002

PATENT APPLICATION: US/10/042,202

TIME: 15:24:13

Input Set : A:\1-11-02. HILL sequence listing.txt

Output Set: N:\CRF3\01272002\J042202.raw

L:16 M:220 C: Keyword misspelled or invalid format, [(v) COMPUTER READABLE FORM:]  
L:23 M:220 C: Keyword misspelled or invalid format, [(vii) PRIOR APPLICATION DATA:]  
L:28 M:220 C: Keyword misspelled or invalid format, [(vii) PRIOR APPLICATION DATA:]  
L:32 M:220 C: Keyword misspelled or invalid format, [(vii) PRIOR APPLICATION DATA:]  
L:36 M:220 C: Keyword misspelled or invalid format, [(iv) CORRESPONDENCE ADDRESS:]  
L:0 M:249 C: Inserted Mandatory Field, [(vi) CURRENT APPLICATION DATA:]  
L:0 M:249 C: Inserted Mandatory Field, [(A) APPLICATION NUMBER:]  
L:0 M:249 C: Inserted Mandatory Field, [(B) FILING DATE:]